



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**C45-4-4KA**  
**Job Sheet R174437**



**Part No:** C45-4-4KA

**Job Qty:** 1 ea

**Part Name:** Load Beam Keeperless Assembly



**Part Weight:** 0 lbs

**Status:** Scheduled

**Priority:** Medium

**Job Created:** 3/15/18

**Job Tracking No:** r

**Due Date:** 3/23/18

**Created By:** Linda Lacelle

**Type:** Rework

**Description:**

**Note:** C45-4-4KA rev.20 IPP REV:A 18.02.09 NEW ISSUE DD VERF:DP

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |              | Sign-off                   |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|--------------|----------------------------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time    |                            |
| 90    | Start up Operation | 1 Ea  |            | 3/22/18  | 0.00      | 0.00    | Start Up Small Fab-4  |              |                            |
| 105   | Mill Conv          | 1 pcs |            | 3/23/18  | 0.00      | 0.17    | Mill Conv 1           |              | AT 18/03/15                |
| 110   | QC                 | 1 pcs |            | 3/23/18  | 0.00      | 0.00    | QC5                   |              | AT 18-3-16                 |
| 130   | Outsource          | 1 pcs |            | 3/23/18  |           |         | GRO002-VC             | Outsource 13 | AT 18/03/18                |
| 140   | Packaging          | 1 pcs |            | 3/23/18  | 0.00      | 0.00    | Packaging2            |              | AT 18/03/30                |
| 150   | QC                 | 1 pcs |            | 3/23/18  | 0.00      | 0.00    | QC6                   |              | DAS 30                     |
| 160   | Packaging          | 1 pcs |            | 3/23/18  | 0.00      | 0.00    | Packaging3-2          |              | 8 3-28 DAS                 |
| 170   | QC21-FG            | 1 Ea  |            | 3/23/18  | 0.00      | 0.00    | QC21                  |              | MAR 21 2018 21 MAR 22 2018 |

Part Op 130 - Issue P/O to Groupe Altech: P/O 003935 Nickel plate, QQ-N-290, Class 2, Grade C -Nickel Plate  
Descriptions: .0009-.0011 - Certificate of Conformity is required

### Job BOM

| Part / Item | Component Name         | Quantity     | Operation             | Container |
|-------------|------------------------|--------------|-----------------------|-----------|
| C45-4-4AP   | C45 Load Beam Assembly | 1 pcs (1 ea) | 90-Start up Operation |           |

### Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | C45-4-4AP      | 1        | 3         | 0         |

### Part Specifications

Specifications could not be found.

Plex 3/15/18 1:06 PM dart.lacelle.linda

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                               | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">           DART Aerospace Ltd.<br/>           1270 Aberdeen Street<br/>           Mississauga, ON L6B 1K7<br/>           CANADA<br/>           TEL: 1 813 632-6200<br/>           Email: sales@dartaero.com<br/>           www.dartaerospace.com         </div> <div style="margin-left: 20px;"> <br/> <b>Container No: S051796</b><br/> <b>Part: C45-4-4KA</b><br/> <b>Job No: R174437</b><br/> <b>Serial No/Batch: S051796</b><br/> <b>Revision: 20</b><br/> <b>Inspector:</b> </div> <div style="margin-left: 20px; writing-mode: vertical-rl; transform: rotate(180deg);">           Date: 03/15/18         </div> </div>                                                                                                                                                                                                                                                                                     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| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;"> <b>Root Cause</b><br/>           Environment <input type="checkbox"/><br/>           Design <input type="checkbox"/><br/>           Doc/Data <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Pre <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Internal Transport <input type="checkbox"/><br/>           Tribal Knowledge <input type="checkbox"/><br/>           LOA <input type="checkbox"/><br/>           Substation <input type="checkbox"/><br/>           Past Expiry Date <input type="checkbox"/><br/>           Misidentified <input type="checkbox"/> </td> <td style="width:15%;">           Nc <input type="checkbox"/><br/>           Op <input type="checkbox"/><br/>           Off <input type="checkbox"/><br/>           Sup <input type="checkbox"/><br/>           Train <input type="checkbox"/><br/>           Use for Testing <input type="checkbox"/><br/>           Poor Information <input type="checkbox"/><br/>           Rushing <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Past Due <input type="checkbox"/> </td> <td style="width:30%;">           Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>           Cuffs <input type="checkbox"/><br/>           Crushing <input type="checkbox"/><br/>           Heat Treat <input type="checkbox"/><br/>           Wave/Twist in Tube <input type="checkbox"/><br/>           Marks/Chatter <input type="checkbox"/> </td> <td style="width:30%;">           Broken/Damage/Defect <input type="checkbox"/><br/>           Inspection Incomplete/Unqualified <input type="checkbox"/><br/>           Contamination <input type="checkbox"/><br/>           Countersink <input type="checkbox"/><br/>           Cut Too Short <input type="checkbox"/><br/>           Instructions Incomplete/Unclear <input type="checkbox"/><br/>           Drill Holes <input type="checkbox"/> </td> <td style="width:10%;">           Loss/Surge <input type="checkbox"/><br/>           Program <input type="checkbox"/><br/>           Grain <input type="checkbox"/><br/>           Weld <input type="checkbox"/><br/>           Wrong Stock Pulled <input type="checkbox"/><br/>           Out of Sequence <input type="checkbox"/><br/>           Off-set <input type="checkbox"/><br/>           Mislabeled <input type="checkbox"/><br/>           Fit/Function <input type="checkbox"/><br/>           Misaligned/off center <input type="checkbox"/> </td> <td style="width:15%;">           Positioned Wrong <input type="checkbox"/><br/>           Outside Dimensions <input type="checkbox"/><br/>           Over/Under tolerance <input type="checkbox"/><br/>           Part Incorrect <input type="checkbox"/><br/>           Part Lost/Missing <input type="checkbox"/><br/>           Part Moved <input type="checkbox"/><br/>           Drawing <input type="checkbox"/><br/>           Finish <input type="checkbox"/><br/>           Misread <input type="checkbox"/><br/>           Turning Sequence <input type="checkbox"/> </td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                            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type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/><br>Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> | Loss/Surge <input type="checkbox"/><br>Program <input type="checkbox"/><br>Grain <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/> |
| <b>Root Cause</b><br>Environment <input type="checkbox"/><br>Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Broken/Damage/Defect <input type="checkbox"/><br>Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> | Loss/Surge <input type="checkbox"/><br>Program <input type="checkbox"/><br>Grain <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/>                                                                                   |                                                                                                                                                                                                                               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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039335**

**Supplier:** GRO002-VC  
Group Altech  
2455 Halpern  
St Laurent  
QC  
H4S 1N9 Canada  
Phone: 514-335-3666  
Fax: 514-335-3868

**PO No:** PO039335

**PO Date:** 3/16/18

**Due Date:** 3/28/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Tsimiklis, ChrisoulaPhone:

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

## **Items**

| Line Item | Job     | Part      | Description                                                                                                                                                                                | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| 1         | R174437 | C45-4-4KA | Load Beam Keeperless Assembly<br>-Issue P/O to Groupe Altech: P/O<br><br>-Nickel plate, QQ-N-290, Class 2, Grade C<br>-Nickel Plate .0009-.0011<br>- Certificate of Conformity is required | Firmed | 3/28/18  | 1 pcs          | 0 pcs             | 1 pcs   | \$120.00/pcs     | \$120.00       |
| 2         | 174083  | 646.3912  | Shim<br>Issue P/O: _____ Cat<br>Plating,<br>CAD PLATE PER QQ-P-416,<br>TYPE II, CLASS 2, CL2                                                                                               | Firmed | 3/28/18  | 25 pcs         | 0 pcs             | 25 pcs  | \$2.3972602/pcs  | \$59.93        |
| 3         | 174084  | 646.3911  | Shim<br>Issue P/O: _____<br>Cad Plating,<br>CAD PLATE PER QQ-P-416,<br>TYPE II, CLASS 2, CL2                                                                                               | Firmed | 3/28/18  | 6 pcs          | 0 pcs             | 6 pcs   | \$2.3972602/pcs  | \$14.38        |
| 4         | 174085  | 646.3910  | Shim<br>Issue P/O: _____<br>Cad Plating,<br>CAD PLATE PER QQ-P-416,<br>TYPE II, CLASS 2, CL2                                                                                               | Firmed | 3/28/18  | 24 pcs         | 0 pcs             | 24 pcs  | \$2.3972602/pcs  | \$57.53        |
| 5         | 174082  | 646.3913  | Shim<br>Issue P/O: _____<br>Cad Plating,<br>CAD PLATE PER QQ-P-416,<br>TYPE II, CLASS 2, CL2                                                                                               | Firmed | 3/28/18  | 6 pcs          | 0 pcs             | 6 pcs   | \$2.3972602/pcs  | \$14.38        |

Plex 3/19/18 8:20 AM dart.lavoie.chanta





# Certificat de Conformité / Certificate of Compliance

(007645-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9  
 Tel: 514-335-3666 Fax: 514-335-3868  
 www.groupaltech.com

## Bon de Livraison / Packing Slip

**007645- 1**

Livré à / Ship to

**DART AEROSPACE LTD**  
 1270 ABERDEEN STREET  
 HAWKESBURY, ON, K6A1K7  
 CANADA  
 Tel.: 613-632-5200 Fax.:

Client / Customer:

**DART AEROSPACE LTD**  
 1270 ABERDEEN STREET  
 HAWKESBURY, ON, K6A1K7  
 CANADA  
 BUYER:

| Date expédition<br>Ship date |                                                                            | Créé Par<br>Generated By                                                                                                                            | Transport / No de Compte<br>Courier / Acc. No. | Bon de commande Client<br>Customer Purchase Order No. |                 |                   |               |                        |
|------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------|-----------------|-------------------|---------------|------------------------|
| 19-Mar-2018                  |                                                                            | Aman                                                                                                                                                |                                                | 039335                                                |                 |                   |               |                        |
| #Ligne<br>Line#              | No. de Série / # Pièce<br>Part Number / Line Item Details<br>Job # / Ref # | Description pièce(s)                                                                                                                                | CATG.<br>U/M                                   | Comm.<br>/Ordered                                     | Exp/<br>Shipped | Qté NC/<br>NC Qty | Qté<br>Scrap/ | À venir/<br>Back Order |
| 1                            | C45-4-4KA<br>Rev.<br>R174437                                               | C45-4-4KA<br>01 -E-NIC ALUM 500 [E-NICKEL ALUM 500]<br>NICKLE PLATE, QQ-N-290<br>CLASS 2, GRADE C<br>NICKLE PLATE .0009-.0011<br>BAKE AFTER PLATING | E-NICKEL ALUM<br><br>CH                        | 1                                                     | 1               | 0                 | 0             | 0                      |

### Notes Additionnelles / Additional Notes

Epaisseur réelle  
Actual Thickness

Inspecteur Qualité  
Quality Inspector

Réçu par  
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.  
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.  
 Our financial and legal responsibility will not be higher than the amount of invoice.